

Photonics and Optical Informatics (12.03.03)

Microwave Photonics

Program objective:

to provide students with knowledge of microwave photonic transceiver systems, optical devices in microwave engineering and nanotechnology in microwave engineering systems.

The program provides fundamental knowledge in optics, photonics and condensed matter physics, as well as advanced subjects such as nanophotonics, terahertz photonics, quantum computing.

Practical and research training

MEPhI laboratories, especially MEPhI Nanocenter, that offers an extensive array of equipment for film deposition, microscopy and device processing for electronics and photonics.

Curriculum features:

- Optics and Photonics of Nanostructures
- Photonics materials
- Semiconductor physics for photonics
- Introduction to modern nanotechnology
- Heterostructure Optoelectronics
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